

CLAIMS

1. An electronic apparatus comprising:

a communication section for requesting an external apparatus to transmit a digital data stream including a video signal and/or an audio signal which are continuous relative to a time axis, and for receiving the digital data stream transmitted in response to the request,

a sample rate converter for rate-converting a received video signal and/or audio signal; and

an output section for outputting the video signal and/or audio signal which are rate-converted and demodulated into a continuous signal,

wherein said sample rate converter changes a number of samples to be outputted in the case that a predetermined volume of the video signal and/or audio signal is rate-converted according to a constant sampling clock and outputted, based on:

(a) time information and/or data volume of the video signal and/or audio signal processed or outputted by the electronic apparatus; and

(b) time information and/or data volume of the video signal and/or audio signal, which are transmitted from said external apparatus or transmittable from said external apparatus to said electronic apparatus.

2. The electronic apparatus as claimed in claim 1,

wherein said external apparatus transmits an interrupt signal to said communication section each time when a data volume of the data

stream transmittable from said external apparatus to said electronic apparatus reaches a constant volume, and

wherein said sample rate converter changes the number of samples to be outputted, based on a number of received interrupt
5 signals and a data volume of the video signal and/or audio signal processed or outputted by said electronic apparatus.

3. The electronic apparatus as claimed in claim 1 or 2,
wherein said external apparatus is a receiver apparatus for receiving the digital data stream transmitted from an external thereof,
10 and

wherein said electronic apparatus has a decoder section or a display section for the video signal and/or audio signal.

4. The electronic apparatus as claimed in claim 1 or 2,
wherein said external apparatus is an IC card, and
15 wherein said electronic apparatus is a host apparatus to which said IC card is attached.

5. A method of controlling an electronic apparatus including:
a communication step of requesting an external apparatus to transmit a digital data stream including a video signal and/or an audio
20 signal which are continuous relative to a time axis, and receiving the digital data stream transmitted in response to the request,

a sample rate converting step of rate-converting a received video signal and/or audio signal; and

an outputting step of outputting the video signal and/or audio
25 signal which are rate-converted and demodulated into a continuous

signal,

wherein said sample rate converting step changes a number of samples to be outputted in the case that a predetermined volume of the video signal and/or audio signal is rate-converted according to a

5 constant sampling clock and outputted, based on:

(a) time information and/or data volume of the video signal and/or audio signal processed or outputted by the electronic apparatus; and

(b) time information and/or data volume of the video signal
10 and/or audio signal, which are transmitted from said external apparatus or transmittable from said external apparatus to said electronic apparatus.

6. The method of controlling an electronic apparatus as claimed in claim 5,

15 wherein said external apparatus transmits an interrupt signal to said communication section each time when a data volume of the data stream transmittable from said external apparatus to said electronic apparatus reaches a constant volume, and

wherein said sample rate converting step changes the number of
20 samples to be outputted, based on a number of received interrupt signals and a data volume of the video signal and/or audio signal processed or outputted by said electronic apparatus.